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SUMMARY OF ACTIVITIES

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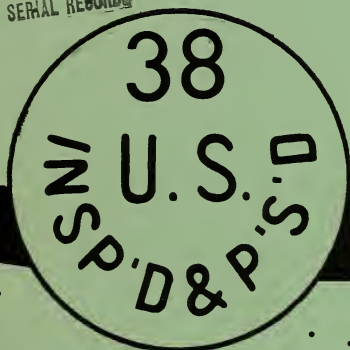
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CURRENT SERIAL RECORDS

Meat Inspection

Division

1964



ARS-93-2-8

October 1964

Agricultural Research Service
U. S. DEPARTMENT OF AGRICULTURE

SUMMARY OF ACTIVITIES, MEAT INSPECTION DIVISION, 1964

Work Performed During Fiscal Year Ended June 30, 1964

This marks the 58th year of continuous meat inspection service under the provisions of the Meat Inspection Act approved June 30, 1906. At that time, inspection was maintained in 163 establishments located in 58 cities. At the end of the fiscal year, inspections were being conducted in 1,679 establishments located in 702 cities and towns. Of this number, 575 were slaughtering establishments and 1,104 establishments engaged in meat processing only.

The Meat Inspection Division, during fiscal year 1964, engaged principally in:

- The examination of food animals, including cattle, calves, sheep, swine, goats, and horses, prior to slaughter to eliminate those animals found to be affected with diseases or other unwholesome conditions.
- A thorough post-mortem examination of each carcass at time of slaughter to detect and eliminate diseased and otherwise unfit meat.
- Guarding against residues in meat resulting from ingestion, treatment with, or similar exposure of animals to such substances as pesticides, chemicals, growth-promoting substances, drugs, or biologicals.
- Destruction for food purposes of all diseased, unsound, or otherwise unwholesome meat and meat-food products.
- Supervision of the preparation of meat and meat-food products to assure their cleanliness and wholesomeness during their preparation into articles of food.
- Guarding against the use of harmful preservatives and other deleterious ingredients.
- Supervision of the application of marks to meat and meat-food products to show that they are "U.S. Inspected and Passed."
- Supervision of the application of informative labeling and prevention of the use of false and deceptive labeling on meat and meat-food products.
- Certification of meat and meat-food products for export.
- Inspection of meat and meat-food products offered for importation into this country.
- Examination of meat and meat-food products for compliance with specification requirements of governmental purchasing agents.
- Such investigations as are necessary to insure the accuracy and effectiveness of the inspection procedures.
- Supervision of the manufacture and labeling of process or renovated butter.
- Developing and determining acceptable methods for humane slaughter of meat animals.

Prepared by: Meat Inspection Division, Agricultural Research Service,
U.S. Department of Agriculture, Washington, D. C., 20250

The Biological Sciences Laboratories evaluated, tested, and diagnosed a total of 19,949 specimens and samples during the fiscal year. This includes enzymological, histopathological, microbiological, parasitological, and serological examinations. These services are utilized in evaluating proposals for new procedures, processes, products, and methods, and in assisting field personnel in making the proper disposition of food animals, their carcasses, and products thereof.

The Chemical Evaluation and Control Laboratory staff reviewed numerous proposals to use new chemical additives, packaging materials, miscellaneous substances, and new processing procedures. Various resources were utilized for scientific information in evaluating new chemical additives or processing procedures. Acceptance of additives, proposals, materials, or procedures depends on appraisal of available scientific data and results of required studies. In requiring toxicity studies and chemical investigations where appropriate in determining suitability of the proposal, this staff prescribed the nature and scope of studies to be undertaken and appraised data obtained. Technical direction was given to the Radiation Laboratory, Residues and Methods Development Laboratory, and the seven Chemical Control Laboratories of the Division. During the year, action was initiated to expand the facilities of the St. Louis, San Francisco, and Washington laboratories, and to re-establish a chemical control laboratory in Omaha.

The laboratories mentioned above examined a total of 167,630 samples of meat and meat-food products and materials used in conjunction with the processing of meat and meat-food products to determine if products or materials were in compliance with Meat Inspection Division requirements or other Federal specifications. Included in the above total were 21,879 samples examined for Commodity Stabilization Service on a reimbursable basis. Of those examined for Meat Inspection Division requirements, 9,198 were found not to be in compliance because of adulteration, unfitness for food, or other deviation from the Division's requirements. At the instigation of the Office of Chemical Evaluation and Control, a program was designed to permit the inspector to use the findings of packer laboratories or other commercial laboratories on official samples as a basis for disposition of product. The accuracy and dependability of the findings of the commercial laboratories were first established by a check program of sample analysis with the Chemical Control laboratories. After the packer or commercial laboratory is once approved, a continuous check of their findings is maintained.

The Contracts and Enforcement staff administered an examination service for specification and/or contract compliance for products purchased by Federal Government agencies. Predominantly, this work is done within federally inspected establishments, but it may be accomplished on other premises. United States Department of Agriculture purchasing programs involving substantial quantities of meat and meat-food products are serviced in this connection. Other Federal agencies using this service included Departments of Defense, Commerce; Interior; Health, Education and Welfare; and Justice; and independent agencies such as General Services Administration and Veterans Administration. This service is provided on a reimbursable basis.

Trained investigators check on alleged violators of the meat laws. Most of these violations consist of illegal interstate movement of nonfederally inspected meats. In most cases, compliance is gained through personal visits and informative distribution of requirements rather than court action. Enforcement procedures consisted of cautionary letters issued to 268 persons or firms, 59 cases presented for criminal prosecution, and 17 cases successfully prosecuted.

Meat inspection regulations of foreign countries were reviewed to determine whether they were substantially equivalent to ours. This is done in connection with the request of foreign countries that their meat be eligible for importation into the United States. Staff members visited 15 foreign countries to evaluate their national meat inspection systems in actual operation.

The Employee Development and Training office assigned one additional Meat Inspection veterinarian to a veterinary college during the fiscal year for advanced training and teaching. This makes a total of six veterinarians assigned in this capacity under the authority of the 1958 Training Act. The cost of the program is shared by the veterinary college and the Division.

One hundred and thirty-two employees attended classes at the Meat Hygiene Training Center in Chicago. Advanced and Veterinary Meat Hygiene courses as well as Supervisory Preparatory courses were continued during the fiscal year. A new course, Management Workshop, was introduced at the Training Center. This course is in the area of personnel administration and management as they apply to the problems of operating Meat Inspection field stations. There were 345 employees in training for 18,263 hours in courses given by the Agricultural Research Service, the Department, Civil Service, General Services Administration, and private organizations.

There were established in May 1964, three veterinary training stations located at St. Louis, Omaha, and St. Paul. All newly employed veterinarians are detailed for 12 weeks of concentrated training in ante-mortem and post-mortem inspections and related duties. Specially designated veterinary instructors follow a standard training outline to develop the new employees. At these training stations the new veterinary employee can learn to inspect all species of food animals under a variety of conditions, which qualifies him for filling a productive position while gaining further on-the-job experience.

In order to maintain a capability for radiological monitoring at meat slaughtering and processing plants, personnel of the Division are continually being trained as radiological monitors. Approximately 1,000 trained monitors operate 548 monitoring stations. There are 135 employees of the Division who are now qualified as monitoring instructors.

The Federal-States Relations office developed proposed new regulations and a proposed memorandum of understanding as a working agreement with the States interested in a cooperative Federal-State meat inspection program. This

resulted from the enactment of Public Law 87-718 which calls for "Further cooperation with States in the administration and enforcement of certain Federal laws." There was furnished to the States background information on Federal-State cooperation, copies of model State meat inspection laws, and Meat Inspection Division training booklets. Six States have received direct assistance in training from the Division by sending State personnel to Federal establishments and offices for on-the-job training with Meat Inspection personnel.

Over 1,000 copies of an ARS study entitled "A review of Certain Aspects of State and Federal Meat Inspection Services and Procedures" have been distributed to State administrators of meat hygiene programs, college instructors, consumers, and others who have requested information about State and Federal meat inspection.

The Labels and Standards staff approved 51,359 new labels and sketches for proposed labels for use at inspected establishments and 1,177 labels for meat and meat-food products intended for importation. Because they did not comply with labeling requirements, approval was withheld from 2,485 labels and sketches.

During the fiscal year, 149 requests were received to examine food articles prepared with meat and/or meat byproducts to determine if they were meat-food products and amenable to the Federal Meat Inspection Act and Regulations if offered for sale in interstate or foreign commerce. A number of new products were developed during the year. This required surveys to obtain information which was used in establishing standards of composition before labels for these new products could be approved.

The taste-testing panel determined the appropriateness of numerous meat product label claims for flavors, tenderness, and similar qualities.

The Planning and Appraisal staff distributed more than 226,000 pamphlets, leaflets and bulletins during the fiscal year to inform the public of our activities. The film, "Your Meat Inspection Service" was released for approximately 76 television showings and 1,682 public showings. A new film entitled "A Mark of Wholesome Meat" was released in February and presented at about 831 public showings and 18 television showings. Meat Inspection exhibits were presented at 14 public gatherings including fairs, National conventions, and meetings held during the fiscal year in all parts of the United States.

The Planning staff provided guidance in developing (a) teaching formats for the Meat Hygiene Training Center, (b) a program for the review of foreign meat inspection systems, and (c) a plan for scheduling Meat Inspection Division exhibits. It continued in selecting and arranging information for long-range planning and control so as to form a system of reports that will give management the key facts needed for decisions -- underscoring particularly the exceptions or abnormal situations needing management's attention.

The Appraisal team conducted a general review of 15 Meat Inspection stations, stressing manpower utilization.

The Plants and Equipment staff reviewed drawings and specifications for 1,467 projects, involving new or remodeled slaughtering and meat-processing plants, to determine conformity with Federal construction and equipment standards. This is a new record, exceeding the number in the next highest year by 256 projects. Plans for 330 projects were not approved. The 1,137 approved projects represent approximately \$82,500,000 in building and equipment costs. Plans for 214 new establishments were approved. This is also a record exceeding the previous high established in Fiscal Year 1963 by 22 plants. Of the new plants, 81 are located in towns or cities without establishments already operating under inspection.

An important change in plant facilities and procedures during the fiscal year involved the rapid adoption of a mechanical hide-stripping system in cattle slaughtering plants. Nearly all plans submitted for new cattle slaughtering layouts included an effective mechanical hide-stripping device in connection with "on the rail" dressing facilities. Numerous existing inspected plants replaced conventional equipment with the improved hide-removal equipment during the year.

A new and more efficient system of presenting hog heads, carcasses, and viscera for inspection developed by the Plants and Equipment staff was installed in a plant during the year. Results obtained were excellent. The new facilities have already been approved for other establishments, and it is expected that most new hog slaughtering plants will use similar equipment.

Meat processing plants continued to shift rapidly to more efficient, highly mechanized equipment permitting high speed production with a minimum of personnel. Such equipment is designed to assure ease of sanitary maintenance.

The Procedures and Requirements staff issued 127 certificates of exemption from Federal meat inspection to qualified retail meat dealers and retail butchers. The holders of these certificates may ship nonfederally inspected meat and meat-food products in interstate commerce to consumers only. Eighty-three certificates were canceled. There were 793 certificates of exemption outstanding at the close of the fiscal year.

During the fiscal year, over 100 million animals or about 96 percent of all animals slaughtered in federally inspected establishments were slaughtered humanely. This was accomplished in about 540 official establishments. Through a monthly reporting system by field veterinarians and by a public announcement in the Federal Register, carcasses of all humanely slaughtered animals were appropriately identified. During the fiscal year, a Division representative met with the Secretary's Humane Slaughter Advisory Committee. The Committee recommended an amendment redefining the general facility requirements for carbon dioxide chambers. This change relieved restrictions, but retained the high standard of humane handling of animals.

Identification service is offered to applicants on a voluntary, reimbursable basis under terms of the Agricultural Marketing Act of 1946. This service provides for maintaining the identity of product as U.S. Inspected and Passed when it is divided, repackaged, or relabeled under Division supervision at a location outside of an official establishment. A total of 385 individuals and firms have been authorized to receive identification service at 45 Meat Inspection stations.

Animal foods inspection was conducted in 12 plants located in 12 cities. Production of certified canned food and canned or fresh frozen food component was 288,937,116 pounds.

Eighteen establishments operate under the Food Inspection Service at 13 Meat Inspection stations. This provides for the voluntary inspection of foods containing meat or meat food products that are not classified as meat food products under the Meat Inspection law and is performed on a reimbursable basis.

The number of meat inspectors assigned to a meat packing plant depends on the kind of meat packing operations--whether slaughtering of food animals or processing of meat-food products or both--and on the size and volume of the plant. The inspection organization in the slaughtering department provides examination of each animal before slaughter and of the carcass of the animal during the various steps that are referred to as the dressing operation. The examination made of the animal before slaughter is called the antemortem inspection. Only those animals found to be normal and healthy at the time of inspection are passed for slaughter. Abnormal animals are handled separately--some are condemned outright. Where the abnormality is slight, the animal is given special handling to guard against unfit meat getting into the food supply. These animals are called suspects.

In a small plant the animal that is passed for slaughter is given a thorough examination by a single inspector. In a large plant, with high production, the inspection routine is broken down into specialized techniques; each assigned to a separate inspector. This examination is called the postmortem inspection. Here, again, some carcasses are condemned outright if they show any condition that makes them unfit for human food. With some carcasses, only partial condemnation is required. In addition to disposing of carcasses according to condition, the dressing operation involves a separation of the inedible portion of the carcass (such as the hide, intestines, stomach, and paunch contents) from the edible portions of the carcass, such as the liver and sweetbread, and the familiar meaty portion of the carcass.

The inspection routines require manual handling and close scrutiny by the inspector of areas of probable abnormalities as glands, organs, and muscle tissues. An important part of the inspection routine is the supervision given the total dressing process. This assures that there is no contamination of the edible portions of the carcass in the separation and removal of the inedible portions and materials.

By contrast with the inspection organization in the slaughtering department, where we find inspection positions integrated in the production line, the organization of the inspection in the meat processing departments provides a more general inspection control. Even so, the so-called processing inspector plans his inspection coverage in a way that assures that meat-food products are prepared and handled in a sanitary environment. He sees that in their formulation only approved, safe ingredients are used, and that the relative amounts of ingredients in a particular product are normal for the product. This guards against adulteration of the meat product even with extensive amounts of harmless additives. The inspector also exercises a label control that assures the use of only those labels that have been approved for a particular product.

An inspected establishment is permitted to process meat products only under inspection control. The inspector makes a sanitary survey of the processing department before operations commence. He has available both chemical and biological laboratory facilities for examining samples of materials that may come in contact with the food as well as materials that are used as ingredients of the food. These range from detergents used for clean-up operations to curing materials, spices, and flavorings. The inspector rejects such materials when they do not pass inspection and requires them to be removed from the plant.

The inspector supervises the formulation and preparation of the great variety of meat-food products including the full range of canned meats, sausage products, and meat specialties. This assures that these products are made according to standards that specify a level of meat content consistent with consumer expectancy. Those meat products that pass the inspection are identified with the marks of inspection before they are shipped from the plant. When a meat product does not conform with the requirements on composition or labeling, it is identified "U.S. Retained" by the inspector and either brought into compliance or destroyed. Where the meat product has become unfit for food, it is condemned, and destroyed for human food.

The tables that follow relate to the findings and volume of the inspection activity in the various categories that make up the total Federal Meat Inspection program.

Table 1. Antemortem and Postmortem Inspection of Animals, Fiscal Year 1964

Kind of Animal:	Antemortem Inspection			Postmortem Inspection		
	Passed	Suspected: 1/	Condemned: 2/	Total	Passed	Condemned: 2/
Cattle.....	23,110,737	90,511	2,382	23,203,630	23,138,594	62,360
Calves.....	4,537,643	2,895	1,202	4,541,740	4,521,624	18,806
Sheep.....	13,700,178	3,278	842	13,704,298	13,630,656	72,731
Goats.....	173,800	105	9	173,914	172,903	999
Swine.....	72,116,796	38,305	998	72,156,099	72,035,575	119,260
Horses <u>3</u> /.....	37,893	499	55	38,447	38,095	297
Total.....	113,677,047	135,593	5,488 4/	113,818,128	113,537,447	274,453

1/ "Suspected" is used to designate animals suspected of being affected with diseases or conditions that may cause condemnation in whole or part on special postmortem inspection.

2/ For causes and additional condemnation, see tables 2 to 6, inclusive.

3/ Horses are slaughtered and their meat handled and prepared in establishments separate and apart from those in which cattle, calves, sheep, goats, and swine are slaughtered and their meat handled and prepared.

4/ Includes 741 previously suspected animals that died in pens.

Table 2. Number of Animals Condemned for Various Diseases and Conditions on Antemortem Inspection, Fiscal Year 1964

Cause of Condemnation	:Cattle:	:Calves:	:Sheep and :Lambs:	:Goats:	:Swine:	:Horses:
Degenerative and dropsical conditions:						
Anasarca.....	11		1			
Emaciation.....	36	5	8		5	8
Miscellaneous.....	12				1	
Infectious Diseases:						
Hog Cholera.....					91	
Leptospirosis.....					1	
Listerellosis.....	10		3			
Mucosal Diseases.....	2					
Swine Erysipelas.....					5	
Vesicular Diseases.....	1					
Miscellaneous.....	4		1		12	
Inflammatory Diseases:						
Enteritis, Gastritis, Peritonitis.....	6	4			1	
Mastitis.....	19					
Metritis.....	11				3	
Nephritis.....	1				1	
Pericarditis.....	20					
Pneumonia.....	35	10	10		10	7
Miscellaneous.....	6	1			2	
Neoplasms:						
Carcinoma.....	8					
Epithelioma.....	932					
Malignant Lymphoma.....	2					
Parasitic Conditions:						
Miscellaneous.....					1	
Septic Conditions:						
Abscess or Pyemia.....	3	3		1	43	
Septicemia.....	11	3	2		4	1
Toxemia.....	5					
Miscellaneous.....	1				2	1
Arthritis.....	7		3		41	
Icterus.....	1	1				
Immaturity.....		28				
Injuries.....	10	4	7		3	
Moribund.....	770	1011	613	5	377	1
Pyrexia.....	125	22	84		115	36
Skin Conditions.....	1					
Suspect Died in Pens.....	295	108	69	3	266	
Tetanus.....	8	1			3	1
Uremia.....	11		42		1	
Miscellaneous General.....	19	1			10	
Total	2382	1202	842	9	998	55

Table 3. Number of Carcasses Condemned for Various Diseases and Conditions on Postmortem Inspection, Fiscal Year 1964

Cause of Condemnation	Number of Carcasses of					
	Cattle	Calves	Sheep and Lambs	Goats	Swine	Horses
Degenerative and dropsical conditions:						
Anasarca.....	1,141	32	60	2	52	
Emaciation.....	4,880	2,548	16,057	387	657	35
Miscellaneous.....	596	50	154		309	9
Infectious diseases:						
Actinomycosis and actinobacillosis.....	715	7				
Anaplasmosis.....	227	6				
Anthrax.....					7	
Blue tongue.....			3			
Brucellosis.....					3	
Caseous lymphadenitis.....			18,141	234		
Hog cholera.....					609	
Johnes disease.....	2					
Leptospirosis.....	7				9	
Listerellosis.....	1					
Mucosal diseases.....	2					
Necrobacillosis and necrosis.....	86	3			9	
Piroplasmosis.....	1					
Swine erysipelas.....					2,267	
Tuberculosis nonreactor.....	66				5,527	
Tuberculosis reactor showing lesions.....	155	9				
Vesicular diseases.....	1					
Miscellaneous.....	20	5	15		56	
Inflammatory diseases:						
Enteritis, gastritis, peritonitis.....	3,918	3,164	658		7,197	9
Mastitis.....	1,036		14		49	1
Metritis.....	1,903	8	352	7	1,004	3
Nephritis.....	2,491	281	556	4	2,651	1
Pericarditis.....	4,904	72	188		1,195	
Pneumonia.....	7,644	3,834	13,409	163	18,884	90
Miscellaneous.....	683	202	245	2	615	4
Neoplasms:						
Carcinoma.....	2,107	14	24		234	22
Epithelioma.....	4,721	2			2	
Malignant lymphoma.....	3,946	141	56	2	1,329	
Sarcoma.....	256	3	35	2	141	9
Miscellaneous.....	1,025	17	70	6	762	6
Parasitic conditions:						
Cysticercosis.....	118	13	643		1	
Stephanuriasis.....					1,586	
Miscellaneous.....	1,410	8	7,977		20	
Pigmentary conditions:						
Melanosis, non-malignant.....	31	35	75	1	305	30
Miscellaneous.....	157	11	27		56	31
Septic conditions:						
Abscess or pyemia.....	6,832	727	2,086	83	23,937	9
Septicemia.....	4,338	2,067	1,295	36	8,406	14
Toxemia.....	1,019	96	189	4	1,511	
Miscellaneous.....	46	11	9		136	
Arthritis.....	604	1,349	2,274	11	14,795	
Asphyxia.....	24	21	76		2,305	
Bone conditions.....	22	2	1		124	
Contamination.....	30	13	48	2	3,561	1
Icterus.....	290	1,653	3,062	16	13,292	
Immaturity.....		1,422	2	1	49	
Injuries.....	2,889	869	1,807	26	3,796	22
Pregnancy advanced or recent parturition.....	82		168	2	83	
Sexual odor.....					521	
Skin conditions.....	7	6	4		82	
Uremia.....	1,438	97	2,535	8	982	
Miscellaneous general.....	489	8	416		144	
Total.....	62,360	18,806	72,731	999	119,260	297

Table 4. Number of Carcasses Retained for Various Diseases and Conditions but Passed for Food After Removal of Affected Parts, Fiscal Year 1964. Does not include those reported in Table 3.

Causes of Retention	Number of Carcasses of					
	Cattle	Calves	Sheep and Lambs	Goats	Swine	Horses
Degenerative and dropsical conditions:						
Anasarca.....	125:	3 :	:	:	:	2:
Miscellaneous.....	893:	22 :	28 :	:	:	90:
Infectious diseases:						
Actinomycosis and actinobacillosis.....	295,880:	3,633 :	:	:	:	7:
Anaplasmosis.....	88:	22 :	:	:	:	:
Blue Tongue.....	:	:	129 :	:	:	:
Brucellosis.....	:	:	:	:	163:	:
Caseous lymphadenitis.....	:	:	97,521 :	9,242 :	:	:
Coccidioidal granuloma.....	11,352:	24 :	:	:	:	:
Johnes disease.....	30:	:	:	:	:	:
Leptospirosis.....	30:	:	:	:	:	20:
Mucosal diseases.....	35:	:	:	:	:	:
Necrobacillosis and necrosis.....	213:	4 :	:	:	76:	:
Pin point glands.....	:	:	:	:	67,254:	:
Tuberculosis nonreactor.....	388:	10 :	:	:	1,452,466:	:
Tuberculosis reactor showing lesions....	1,178:	32 :	:	:	:	:
Tuberculosis reactor showing no lesions..	3,881:	103 :	:	:	:	:
Vesicular disease.....	1:	:	:	:	:	:
Miscellaneous.....	341:	2 :	16 :	:	143:	:
Inflammatory Diseases:						
Enteritis, Gastritis, Peritonitis.....	766:	381 :	20 :	:	1,155:	213
Mastitis.....	3,686:	:	29 :	:	43:	:
Metritis.....	996:	1 :	4 :	:	28:	2
Nephritis.....	1,253:	427 :	16 :	:	1,625:	19
Pericarditis.....	1,227:	76 :	67 :	:	642:	16
Pneumonia.....	51,851:	25,888 :	31,669 :	209 :	48,004:	730
Miscellaneous.....	388,540:	16,178 :	136,498 :	1,836 :	508,968:	439
Neoplasms:						
Carcinoma.....	447:	1 :	10 :	:	170:	:
Epithelioma.....	74,170:	67 :	:	:	7:	:
Miscellaneous.....	580:	8 :	59 :	:	250:	5
Parasitic Conditions:						
Cysticercosis.....	10,052:	25 :	19,373 :	:	:	:
Cysticercosis (Refrigeration).....	3,861:	11 :	:	:	:	:
Stephanuriasis.....	:	:	:	:	94,170:	:
Miscellaneous.....	2,957:	2,328 :	14,568 :	:	9:	:
Pigmentary Conditions:						
Melanosia Non-Malignant.....	260:	97 :	300 :	:	1,237:	761
Miscellaneous.....	673:	3 :	471 :	:	456:	3
Septic Conditions:						
Abscess.....	341,473:	15,923 :	37,182 :	1,328 :	4,088,681:	4,393
Miscellaneous.....	67:	:	:	:	1,023:	:
Other:						
Arthritis.....	70,845:	8,946 :	39,946 :	244 :	341,353:	739
Bone conditions.....	639:	80 :	23 :	:	535:	:
Contamination.....	141,621:	36,110 :	73,755 :	35 :	301,763:	1,945
Icterus.....	17:	27 :	167 :	:	71:	:
Injuries.....	547,506:	48,448 :	88,123 :	445 :	425,192:	2,238
Normal.....	7,458:	1,191 :	1,573 :	19 :	9,381:	12
Pregnancy Advanced or Recent Parturition	1,230:	:	13 :	2 :	11:	:
Sexual Odor.....	:	:	:	:	3,183:	:
Skin conditions.....	55,403:	9,569 :	12,166 :	:	105,510:	2
Miscellaneous general.....	1,022:	15 :	965 :	:	1,081:	:
Total.....	2,023,035:	169,655 :	554,691 :	13,360 :	7,454,769:	11,517

Table 5. Number of Parts of Carcasses 1/ Condemned for Various Diseases and Conditions on Postmortem Inspection, Fiscal Year 1964

Cause of Condemnation	Parts of Carcasses of					
	Cattle	Calves	Sheep: and Lambs:	Goats:	Swine	Horses
Degenerative and dropsical conditions:						
Anasarca	56	3				
Miscellaneous	547	1	25		2	
Infectious diseases:						
Actinobacillosis and actinomycosis	228,367	3,307				
Caseous lymphadenitis			281			
Coccidioidal granuloma	41					
Mucosal diseases	34					
Necrobacillosis and necrosis	104	3			6	
Tuberculosis nonreactor	148	11			339,221	
Vesicular diseases	1					
Miscellaneous	275	1			25	
Inflammatory diseases:						
Miscellaneous	1,854	19	137		179	18
Neoplasms:						
Carcinoma	321				1	
Epithelioma	73,593	67				
Miscellaneous	61	8	1		5	1
Parasitic Conditions:						
Cysticercosis	218	2	195			
Stephanuriasis					4,589	
Miscellaneous	547	12	6		9	
Pigmentary conditions:						
Melanosis non-malignant	69	29			306	493
Miscellaneous	568	2			406	
Septic conditions:						
Abscess	65,822	6,740	318	205	2,787,864	4,168
Miscellaneous	21				287	
Arthritis	2,832	217	3,177	24	15,962	5
Bone conditions	144	20	2		330	
Contamination	58,898	18,158	18,848	18	216,193	58
Injuries	15,270	1,537	3,309	12	90,412	318
Miscellaneous general	256				22	
Total	450,047	30,137	26,299	259	3,455,819	5,061

1/ A part of a carcass refers to a separate portion, such as a head, a ham, or a shoulder.

Table 6. Cattle and Calf Livers Condemned for Various Diseases and Conditions on Postmortem Inspection

Fiscal Year 1964

Cause of Condemnation	Cattle Livers	Calf Livers
Abscess.....	1,876,218	24,229
Carotinosiis.....	11,210	722
Cirrhosis.....	17,905	787
Contamination.....	30,269	2,279
Degenerative Conditions.....	11,435	1,006
Distoma.....	553,862	10,107
Echinococcus.....	1,731	63
Injuries.....	854	1,897
Melanosis.....	6,338	526
Other Parasitic Conditions.....	102,823	5,393
Sawdust.....	208,326	5,266
Telangiectasis.....	395,811	2,371
Tuberculosis.....	431	1
Miscellaneous.....	36,672	3,302
Total.....	3,253,885	57,949

Note: There were 4,383,626 pounds of sheep livers, 75,123 pounds of goat livers and 26,594,934 pounds of swine livers condemned.

Table 7. Meat and Meat-Food Products Prepared and Processed under Supervision,
Fiscal Year 1964

Product	Pounds
Placed in cure:	
Beef.....	185,807,802
Pork.....	3,361,573,918
Other.....	3,528,020
Smoked and/or dried:	
Beef.....	56,652,409
Pork.....	2,569,294,182
Cooked meat:	
Beef.....	55,887,247
Pork.....	243,811,649
Other.....	5,211,325
Sausage:	
Fresh finished.....	294,934,273
To be dried or semi-dried....	151,014,618
Frankfurters, wieners.....	761,342,568
Other.....	753,684,478
Loaf, head cheese, chili con carne	235,456,514
Steaks, chops, roasts.....	746,885,013
Meat extract.....	1,552,905
Sliced bacon.....	1,145,427,788
Sliced other.....	432,970,834
Hamburger.....	331,788,070
Miscellaneous meat product.....	387,145,249
Lard:	
Rendered.....	2,048,887,406
Refined.....	1,356,074,724
Oleo stock.....	65,631,534
Edible tallow.....	537,910,852
Pork fat rendered.....	91,926,749
Pork fat refined.....	42,917,094
Compound containing animal fat....	921,047,442
Oleomargarine containing animal fat	177,130,881
Canned products.....	2,667,010,310
Horse meat products:	
Cured.....	177,100
Chopped.....	3,134,793
Canned horse meat.....	10,417,639
Total.....	19,646,235,386* <u>1/</u>
Boning:	
Beef boning.....	3,415,762,493
Pork cut.....	11,482,554,652
Other boning.....	<u>1,120,791,805</u>
Total.....	16,019,108,950*
Grand Total.....	35,665,344,336**

1/ This figure represents inspection pounds. Some of the products may have been inspected and recorded more than once on account of their having been subjected to more than one processing treatment, such as curing, smoking, and slicing.

Table 8. Meat and Meat-Food Products Canned Under Federal Inspection, Fiscal Year 1964 ^{1/}

Product	Quantity	3 pounds or over	Under 3 pounds
	(pounds)	(pounds)	(pounds)
Luncheon meat	333,128,433	140,318,899	192,809,534
Canned hams (whole or fractional)	325,918,080	320,414,240	5,503,840
Beef hash	74,488,317	5,936,346	68,551,971
Chili con carne	171,286,331	11,822,495	159,463,836
Viennas	66,803,902	2,644,460	64,159,442
Frankfurters or wieners in brine or sauce	2,537,692	296,406	2,241,286
Deviled ham	9,505,991		9,505,991
Other potted deviled meat food products	36,807,141	3,003	36,804,138
Tamales	37,802,991	2,982,379	34,820,612
Sliced dried beef	2,212,573	257,334	1,955,239
Chopped beef	13,095,018	49,830	13,045,188
Meat stew (all types)	144,115,348	4,198,749	139,916,599
Spaghetti meat products (all types)	118,406,665	3,706,816	114,699,849
Tongue (not pickled)	1,523,424	525,348	998,076
Vinegar pickled products	25,676,005	9,993,713	15,682,292
Sausage	5,648,496	21,289	5,627,207
Hamburger, roasted or corned beef, meat and gravy	103,039,301	12,914,668	90,124,633
Soups	588,986,923	33,515,134	555,471,789
Sausage in oil	10,635,048	4,821,217	5,813,831
Tripe	5,016,562	131,100	4,885,462
Brains	2,022,516		2,022,516
Canned loins and picnics	35,848,068	33,581,405	2,266,663
All other products containing: 20% or more meat and/or meat byproducts	146,170,654	19,227,012	126,943,642
Less than 20%	283,152,130	12,488,865	270,663,265
Total	2,543,827,609	619,850,708	1,923,976,901

^{1/} Canned product less product for Department of Defense.

Table 9. Meat and Meat-Feed Products Condemned on Reinspection and Destroyed, Fiscal Year 1964

Cause	Beef (pounds)	Veal (pounds)	Mutton & Lamb (pounds)	Goat Meat (pounds)	Fork (pounds)	Total less Horse Meat (pounds)	Horse Meat (pounds)	Grand Total (pounds)
Tainted, sour, or putrid.....	3,523,375	42,039	71,337	1,323	6,370,472	10,008,546	162,624	10,171,170
Rancid.....	256,389	922	2,065		398,434	657,810	1,600	659,410
Molds or foreign odors.....	591,947	3,085	5,832	465	750,174	1,351,503	47,102	1,398,605
Unsound canned goods.....	424,744	379	7,853		278,476	711,452	786,762	1,498,214
Unclean or contaminated.....	4,569,663	215,228	141,796	18,488	4,736,494	9,681,669	45,513	9,727,182
Miscellaneous.....	248,799	2,505	16,750	40	211,839	479,933	290	480,222
Total.....	9,614,917	264,158	245,633	20,316	13,745,889	22,870,913	1,043,891	23,914,804

Table 10. Materials Other than Meat Rejected For Use, Fiscal Year 1964

Produce	CAUSE OF REJECTION										Total
	Noncompliance with Federal Regulations	Contamination	Odor, color, or taste	Sour and/or moldy	Unsound canned goods	Unacceptable equipment	Miscellaneous	(pieces)	(pieces)	(pieces)	
Spices and seasoning.....	13,430	210	90,209	300	1,520	4,400	7	119,566	510		
Flour and grain.....	6,215		62,150		4,872	39,670	160	113,067			
Dairy and egg products.....	9,664		3,923		900	23,233	24	37,744			
Fruits and vegetables.....	400		5,366		3,656	20,405	48	45,855			
Soaps, oils and cleaners.....	20,763	18	49,482		1,953			72,301	18		
Equipment.....	2,103	61,859	150		821			130	27,696	445,253	
Casings.....		1,409	3,689		6,823	3,304	541	7,747	8,773		
Curing agents.....	12,820		246,834					259,654			
Miscellaneous.....	6,495	21	44,877	430	1,548	423	61	435			
Totals.....	71,890	63,498	506,680	7,635	17,753	541	88,895	289	734,394	445,261	

Materials rejected for use which are listed above were either removed from the establishments, returned to the supplier, destroyed by the establishments, or held for Food and Drug Administration, or other health authority depending upon the cause of rejection.

Table 11. Foreign Meat and Meat Food Products Passed for Entry, Fiscal Year 1954

Country of Origin	Fresh meats and edible organs			Cured meats			Canned meats			Sausage (trichina treated)	Cooked Beef	Miscellaneous	Horse Meat	Total (pounds)
	Beef and Veal	Mutton and Lamb	Pork	Beef	Pork	Beef	Pork	Other	Pork					
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Argentina.....				152,909		168,422,961		215,686			8,702,299.5	863,034	13,844,294	97,201,183
Australia.....	544,447	517,461	1,800	50,169		557,891		2,692			370,525	413,651		594,380,399
Austria.....														17,306
Belgium.....														114
Brazil.....														11,977,650
Canada.....	21,072,932	688,838	38,943,272	10,000		9,244,300		20			2,672,250	1,080		83,760,492
Costa Rica.....	18,958,155			152,650	8,174,861	2,866					2,572,427	4,585	6,129,224	18,958,155
Czechoslovakia.....														1,229,249
Denmark.....	575													76,716,083
Dominican Republic.....														575
England.....														39,901
France.....														105,911
Germany.....														1,055,561
Guatemala.....	13,605,192													13,702,742
Haiti.....	3,155,741													3,177,127
Holland.....														41,280,169
Honduras.....	9,925,379													9,925,379
Iceland.....	200,580													864,087
Ireland.....	60,523,179													60,811,356
Italy.....														2,449,905
Japan.....	17													17
Mexico.....	62,165,958													71,576,930
Nicaragua.....	23,806,270													23,806,270
Northern Ireland.....	814,118													814,118
Norway.....	284,941													316,044
New Zealand.....	1229,986,804	11,767,395	39,650											241,821,829
Panama.....	204,405													204,405
Paraguay.....														12,430,399
Poland.....														41,538,600
Scotland.....														2,113
Spain.....														24,471
Sweden.....														65,802
Switzerland.....														16,501
Uruguay.....														17,127,260
Yugoslavia.....														6,246,652
Total.....	988,551,773	61,667	662,39,073,024	736,974	9,003,102	107,587,563	148,381,811	1,089,064	4,915,916	11,750,292	11,750,292	11,750,292	1,433,395,130	1,433,395,130

Table 12. Foreign Meat and Meat-Food Products Refused Entry and/or Condemned, Fiscal Year 1964

Country of Origin	Fresh meats and edible organs				Cured meats				Canned meats				Sausage				Cooked				Miscel-				Horse				Total			
	Beef	Mutton	and	Pork	Beef	Pork	Beef	Pork	Beef	Pork	Other	(trichinae treated)	Beef	Miscellaneous	Horse	Meat	Beef	Miscellaneous	Horse	Meat	Beef	Miscellaneous	Horse	Meat	Beef	Miscellaneous	Horse	Meat	Beef	Miscellaneous	Horse	Meat
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
Argentina.....	2,134	213,173	350																													
Australia.....	310,618	30,598	217,503																													
Brazil.....	220,575																															
Canada.....																																
Costa Rica.....																																
Czechoslovakia.....																																
Denmark.....																																
England.....																																
France.....																																
Germany.....																																
Guatemala.....																																
Haiti.....																																
Holland.....																																
Honduras.....																																
Iceland.....																																
Ireland.....																																
Italy.....																																
Mexico.....																																
New Zealand.....																																
Nicaragua.....																																
Northern Ireland.....																																
Norway.....																																
Panama.....																																
Paraguay.....																																
Poland.....																																
Spain.....																																
Sweden.....																																
Switzerland.....																																
Uruguay.....																																
Yugoslavia.....																																
Total.....	5,534,082	2,203,198	218,341	44,862	35,810	2,079,357	826,579	152,424	34,032	626,924	55,288	824,086	12,634,963																			

Note: The figures in Tables 11 and 12 do not represent the quantity of duty-paid product entered for consumption during the fiscal year. They reflect the amounts of imported product inspected and on which the disposition was completed during this period.

Table 13. Quantity of Meat and Meat-Food Products, Inedible Products, and Casings Certified for Export, Fiscal Year 1954

Country of Destination	Beef and/or Veal			Mutton and/or Lamb			Pork		
	Fresh (pounds)	Smoked & Cured (pounds)	Edible Organs (pounds)	Fresh (pounds)	Smoked & Cured (pounds)	Edible Organs (pounds)	Fresh (pounds)	Smoked & Cured (pounds)	Edible Organs (pounds)
Africa, Other.....	126,552	20,653	8,376	15,760	9,151	1,349	38,342	55,773	51,659
U.A.R. Egypt.....	104						19,104	58,703	
Asia, Other.....	8,309,819	121,570	660,825	8,525	2,905		138,854	110,018	21,769
Hong Kong.....	41,995	3,069	1,728	3,077	6,016		127,354	11,011	153,380
Japan.....	73,041	7,039	290,205	1,451	488	295	22,172,850	97,380	2,430,995
Philippines.....	19,340	7,073	227		599		669,322	41,892	76,275
Caribbean, Other...	3,812,275	3,436,886	560,296	69,066	639,129	44,773	1,649,737	11,924,976	79,595
Cuba.....									
Dominican Republic.	57,912	11,040	4,348	727	4,717		37,466	111,765	26,574
Haiti.....	24,182	11,826	30,207	16	625	15	4,654	39,842	3,643
Europe, Other.....	1,118	2,007	98,124	3			114,141	6,320	6,105,156
Austria.....	342								6
Belgium.....	423,228	14,500	1,596,624	16,000			3,115,341	20,555	2,456,186
Denmark.....	28		100					626	
France.....	1,726,969	24,269	251,360	54,320	8,720	416,434	15,422,866	182,360	18,954,363
Germany, West.....	13,584	28,735	2,719,395	35,872		34,050	3,382,278	93,751	37,270,275
Italy.....	97,296	1,879	3,282,651	372,756			260,549	3,866	44,071
Netherlands.....	2,036,416	10,478	407	49,922		62,075	11,612,934	242,16	125,875
Norway.....	35,300	64,750	100,533					10,227	
Portugal.....	1,554						3,307,846		
Poland.....							3,176,054	82,490	
Spain.....	331		9,913				9,305		
Sweden.....	129,840	65	3,349,494	4,738				3,384	920,984
Switzerland.....	12,021	70	816,587						72,720
United Kingdom.....	1,937,846	129,22	453,588	122,628	98,336	9,903,853	231,024	59	7,849
Yugoslavia.....						1,316	353,048	3,318	30,030
North America, Other	138,399	165,007	32,638	78,907	8,278	89	204,281	11,666	40,888
Canada.....	3,890,965	12,820,930	611,413	393,730	479,060	17,501	54,579	2,202,621	2,202,621
Mexico.....	71,507	40,396	2,801,563	446,992	403	50	1,857,005	6,057	939,383
Oceania, Other.....	4,516	283,340	322	480	772				214,165
Australia.....								98,025	30
New Zealand.....									
South America, Other	37,811	1,738,426	1,343	347	3,778		187,232	553,522	20,639
Argentina.....				42					
Brazil.....	5,251								
Paraguay.....									
Uruguay.....									
Venezuela.....	4,492	12,082	25,019	1,011	23,590	30,000	8,168,667	213,167	180,943
Hungary.....									800,460
Total.....	23,033,434	18,815,741	79,185,286	1,676,387	1,369,177	33,210	10,518,869	692,500	130,840,469
									26,762,341
									87,024,184
									6,028,399

Table 13. Quantity of Meat and Meat-Food Products, Inedible Products, and Casings Certified for Export, Fiscal Year 1964--Continued

Country of Destination	Canned Products (pounds)	Sausage Meat (pounds)	Lard and Pork Fat (pounds)	Other Fat/Oils (pounds)	Total Meat-Food Products (pounds)	Horse Meat				Country Total (pounds)
						Smoked (pounds)	Edible:Miscel- laneous (pounds)	Inedible Products (pounds)	Casings (pounds)	
Africa, Other.....	548,216:	140,152:	158,450:	50,548:	1,227,990:			881,022:	1,454,769:	3,563,781
U.A.R. Egypt.....	13,412:	1,314:			92,637:					92,637
Asia, Other.....	2,080,961:	624,206:	3,054,392:	37,097:	15,277,814:			2,919:	7,558:	15,288,963
Hong Kong.....	402,137:	76,273:	981,948:	49,196:	1,867,626:			18,802:		1,886,428
Japan.....	300,891:	21,027:	197,451:	5,255:	25,678,487:	240:	11,020:	2,716,759:	13,514:	28,420,020
Philippines.....	629,013:	296,540:	30,696:	214,546:	1,985,513:			20,000:	3,339:	2,008,852
Caribbean, Other...	1,788,900:	1,329,921:	966,737:	580,138:	26,933,910:			5,313:	22,560:	26,966,183
Cuba.....	52,400:				52,400:					52,400
Dominican Republic.	1,497,901:	44,508:	5,540:	2,504:	1,808,645:					1,808,655
Haiti.....	67,214:	35,423:	6,793,610:	68,383:	7,075,610:			1,500:		7,077,145
Europe, Other.....	237,272:	957:	16,377,552:		23,142,656:			903:	23,078:	23,166,637
Austria.....					342:			316,834:	75:	317,251
Belgium.....	47,605:	648:	865,894:	1,498,325:	10,059,377:			20,392:	1,221,429:	11,400,033
Denmark.....	76,766:	2,970:			95,490:				3,425:	98,915
France.....	93,007:	4,883:	10,200:		66,192,609:					67,660,559
Germany, West.....	16,835:	4,883:	16,352,278:	29,744:	59,981,460:			52,623:	1,496,401:	61,530,484
Hungary.....			2,434,747:		4,127,270:			1,395,441:	72,509:	61,530,484
Italy.....	36,318:	9,209:		18,000:	3,235,207:					3,235,207
Netherlands.....	27,914:	17:	1,429,220:	580,329:	4,127,270:			764,205:	212,666:	5,104,141
Norway.....	36,987:	17:	367,360:		3,534,613:			1,153,814:	681,273:	44,332,585
Portugal.....	5,252:	219,961:			641,130:			441,768:	233,149:	1,316,047
Poland.....	33,597:		1,864,756:		1,331,584:			403,621:	2,200:	3,536,813
Spain.....	317,378:	7,491:			3,624,905:					5,819,889
Sweden.....	56,597:	26:			922,419:			240,975:	17,969:	3,906,880
Switzerland.....	63,242:			22,591:	554,084,309:					2,725,422
United Kingdom.....	1,256,344:	7,399:	515,781,625:	2,245,822:	19,733,495:			279,162:	2,709,942:	557,073,413
Yugoslavia.....			19,367,465:		11,322,347:			329:	1,493,991:	21,227,815
North America, Other:	1,314,328:	363,499:	6,661,258:	106,948:	108,417,324:			523,273:	2,410,333:	11,846,227
Canada.....	648,861:	187,775:	16,618,813:	5,679,598:	19,816,905:			84:	8,596,645:	119,428,515
Mexico.....	402,223:	138,958:	8,761,950:	221,020:	542,110:			9,137,658:		28,954,574
Oceania, Other.....	129,871:	20,989:	2,220:		1,565:					542,110
Australia.....	1,448:	69:			1,328:			45,450:	1,650,008:	1,697,023
New Zealand.....	289:	39:			24,310,644:				475,879:	476,207
South America, Other:	190,487:		21,270,705:	202,760:	1,044:			1:	210:	24,310,855
Argentina.....	1,001:		1:		23,751:					1,045
Brazil.....			18,500:		791:					105,917
Paraguay.....					147:					791
Uruguay.....										147
Venezuela.....	308,689:	18,784:	190,180:	45,474:	9,670,811:					9,681,451
Total.....	12,684,297:	3,374:	201,640,983:	210,111,658,278:	1,054,679,983:	180,651,325,899:	11,020:	756:27,021,410:	18,638,972:	1,100,898,691

Table 14. Quantities of Meat and Meat-Food Products and Miscellaneous Products Examined for Specification Compliance and/or Condition for Other Government Agencies

Fiscal Year 1964

Branch of Government	:	Accepted	:	Rejected
Department of Agriculture:	:	:	:	
AMS Meat Grading Branch.	:	2,020,213	:	93,222
Forest Service	:	136,247	:	2,141
Agriculture Stabilization and Conservation Service	:	363,087,238	:	1,104,589
Department of Interior:	:	:	:	
Fish and Wildlife Service.	:	42,098	:	847
Bureau of Indian Affairs	:	311,058	:	424
Department of Health, Education and Welfare:	:	:	:	
Public Health Service	:	1,171,198	:	10,103
Department of Justice:	:	:	:	
Bureau of Prisons	:	70,121	:	
U. S. Army	:	79,420,397	:	
Coast Guard	:	3,707	:	
U. S. Navy	:	39,744,900	:	1,079,106
General Services Administration	:	1,552,728	:	52,743
Veterans Administration	:	28,755,455	:	254,633
Total	:	516,315,360	:	2,597,808

Table 15. Shipments of Farm-Slaughtered Meat and Meat-Food Products,
Fiscal Year 1964

Product	Quantity
	(pounds)
Fresh Meats:	
Beef	98,900
Veal	2,823
Mutton and Lamb	5,425
Goat meat.	
Pork	58,053
Cured meat, sausage and miscellaneous meat food products	2,263,499
Total.	2,428,700

Table 16. Meat and Meat-Food Product Shipments by Retail Butchers
and Retail Dealers under Certificates of Exemption,
Fiscal Year 1964 ^{1/}

Product	Quantity
	(pounds)
Fresh Meats:	
Beef.	9,314,978
Veal.	412,214
Mutton and Lamb	393,581
Goat Meat.	5,290
Pork.	1,346,670
Cured meat, sausage and miscellaneous meat food products.	10,091,803
Total	21,564,536

^{1/} Under certain provisions of the Meat Inspection Law, shipments of meat of animals slaughtered by farmers on farms, and meats shipped by retail butchers and retail dealers supplying their customers outside of the State, are exempted from inspection although such shipments are required to be reported.

Table 17. Food Inspection Service, Fiscal Year 1964

Product	Quantity
	(pounds)
Meat flavored soups, etc.....	992,867
Beef bouillon cubes.....	11,730
Soup and gravy bases.....	779,466
Bakery products with meat ingredients.....	240,693
Total.....	2,024,756

Table 18. Identification Service, Fiscal Year 1964

Product	Quantity
	(pounds)
Beef	86,292,397
Veal	14,691,793
Mutton and lamb	471,639
Pork	22,829,964
Lard and Rendered Pork Fat	561,426,712
Miscellaneous	6,629,235
Total	692,346,740